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(71) Applicant (for all designated States except US): **NOKIA CORPORATION** [FI/FI]; Keilalahdentie 4, FIN-02150 Espo (FI).

(71) Applicant (for LC only): **NOKIA INC.** [US/US]; 6000 Connection Drive, Irving, TX 75039 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **PRIOTTI, Paolo**

[IT/JP]; Placebo-Tobe 301, 5-1, Tobe-honcho, Nishi-Ku, Yokohama-shi, Kanagawa 220-0041 (JP).

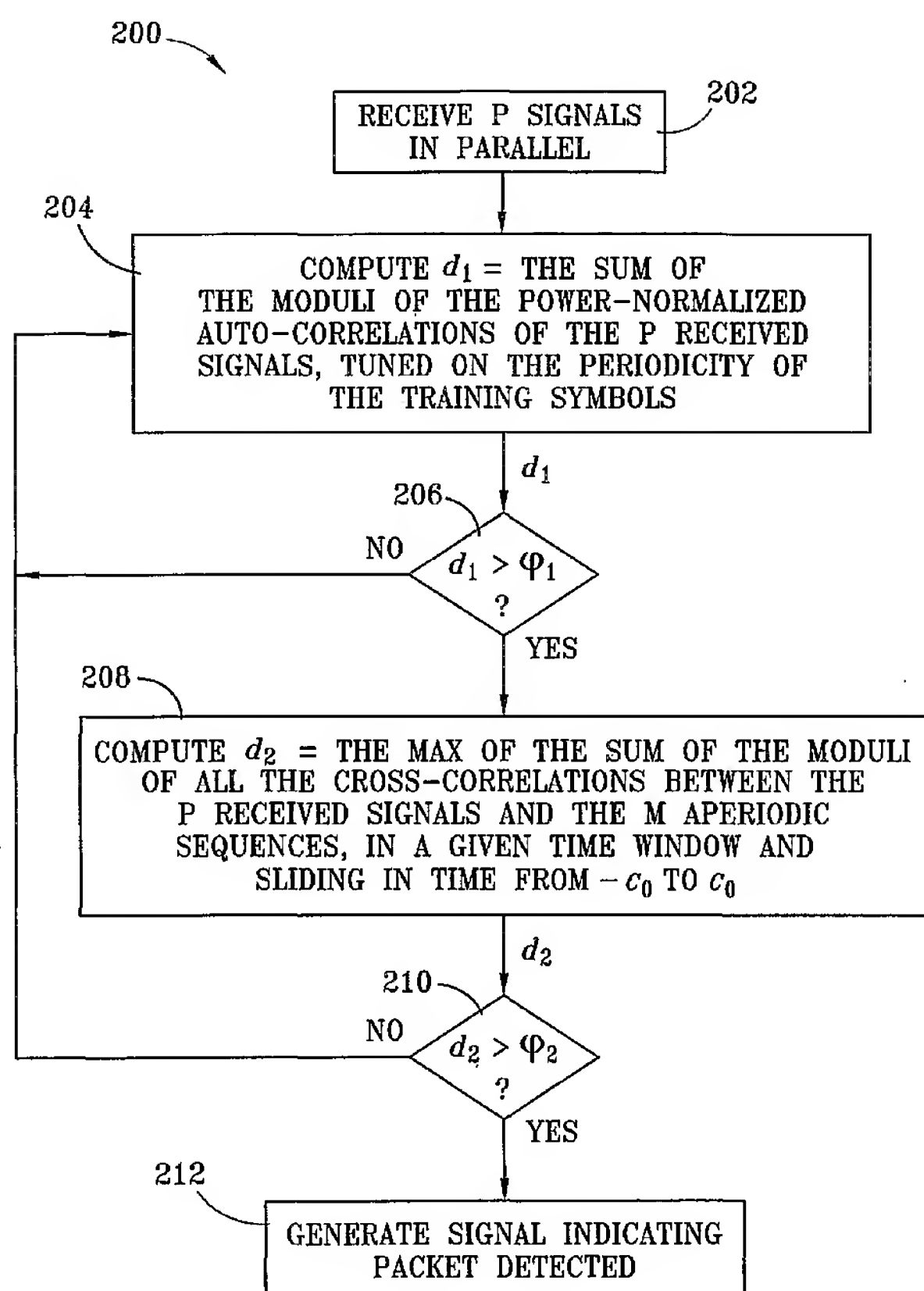
(74) Agents: **KELLY, Robert, H.** et al.; Scheef & Stone, L.L.P., 5956 Sherry Lane, Suite 1400, Dallas, TX 75225 (US).

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(54) Title: APPARATUS, AND ASSOCIATED METHOD, FOR DETECTING PACKETS



(57) Abstract: In a robust system and method for detecting packets in SISO and MIMO broadband multicarrier transmission, a packet detector computes continuously the sum of the moduli of the power-normalized auto-correlations of a sequence of received signals (204), tuned on the periodicity of the training symbols. When the power-normalized auto-correlation exceeds a first predetermined threshold (206), then the maximum value of the sum of the moduli of all the cross-correlations between the received signals and the M aperiodic sequences is computed in a given time window (208), sliding in time from  $-c_0$  to  $c_0$ . A packet is identified as received (212) when the maximum value of the sum of the moduli of the cross-correlations exceeds a second predetermined threshold (210).



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